

ABSTRACT

An antireflection molded article of a thermoplastic resin has an antireflection face having fine protrusions or depressions of pyramids, cones or prisms and entirely or partially formed with inclined faces of the protrusions and the depressions. The average of heights of the protrusions or depths of the depressions is 50 to 600 nm. The average distance between adjacent protrusions or depressions is 50 to 400 nm. The inclined faces of protrusions or depressions has an arithmetic average roughness (Ra) of 100 nm or smaller. The article has a very small reflectance. The process for producing the article comprises forming a shape having protrusions and/or depressions on the surface of a mold core or a stamper using a fine cutting machine and a diamond cutting tool in a room controlled at a prescribed temperature $\pm 0.1^{\circ}\text{C}$ and injection molding the thermoplastic resin using a mold having the mold core or the stamper having the above shape.